TencentDB for MySQL

Get Started

Product Documentation
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  Initializing CDB for MySQL
  Accessing MySQL Database
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This document describes how to initialize a TencentDB for MySQL instance for getting started with ease.

**Prerequisites**

1. You have registered a Tencent Cloud account and completed identity verification.
   To register a Tencent Cloud account:
   
   Click here to register a Tencent Cloud account

   To complete identity verification:
   
   Click here for identity verification

2. You have purchased a TencentDB for MySQL instance.
   To purchase a TencentDB for MySQL instance:

   Click here to enter the purchase page

**Directions**

1. Log in to the TencentDB for MySQL Console and select **Instance List** on the left sidebar.
2. Select a TencentDB for MySQL instance in **Uninitialized** status and click **Initialize** in the "Operation" column.

3. In the initialization dialog box that pops up, configure the parameters related to initialization, and click **OK** to start initialization.
   
   - **Supported Character Set**: LATIN1, GBK, UTF8, and UTF8MB4 character sets are supported.
     The default value is LATIN1, i.e., ISO-8859-1 encoding format. After initializing the instance, you can also change the character set on the instance details page in the console.
- **Table Name Case Sensitivity**: set whether the table name is case-sensitive, which is yes by default.
- **Custom Port**: the database access port, which is 3306 by default.
- **Set Password of Root Account**: the username of the newly created TencentDB for MySQL instance is `root` by default. Set a password for this `root` account.
- **Confirm Password**: enter the password again.

4. Return to the instance list. The status of the target TencentDB for MySQL instance has changed to **Running**, indicating that the initialization was successful.

### Subsequent Steps

- You can access TencentDB for MySQL over both the private and public networks from a Windows or Linux CVM instance. For more information, please see [Accessing TencentDB for MySQL Instance](#).
- You can view instance information, monitor instances, manage databases, and do more On the instance list page and instance management page in the console. For more information, please see [Managing TencentDB for MySQL Instance](#).
TencentDB for MySQL can be accessed in the following methods:

<table>
<thead>
<tr>
<th>Method</th>
<th>Description</th>
</tr>
</thead>
</table>
| **Private network access** | A CVM instance can be used to access the private network address of a TencentDB instance. This access method relies on the high-speed private network of Tencent Cloud and features low delay.  
  - The two instances must be under the same account and in the same VPC in the same region or both in the classic network.  
  - The private network address is provided by the system by default and can be viewed in the instance list or on the instance details page in the TencentDB for MySQL Console. |
| **Public network access**  | If you cannot connect to the private network, you can access your TencentDB for MySQL instance at its public network address.  
  - The public network address needs to be manually enabled. It can be viewed on the instance details page in the TencentDB for MySQL Console and can be disabled if no longer needed.  
  - Enabling the public network address will expose your database service to the public network, which may lead to database intrusions or attacks; therefore, you are recommended to use the private network to access the database.  
  - Public network access to TencentDB is suitable for development or auxiliary management of databases but not for formal business access, as potentially uncontrollable factors may lead to unavailability of the public network access, such as DDoS attacks and surges in access traffic.  
  - The public network address can be enabled only for instances in the Guangzhou, Shanghai, Beijing, Chengdu, Chongqing, Hong Kong (China), Singapore, Seoul, Tokyo, and Silicon Valley regions. |

The following describes how to log in to a TencentDB for MySQL instance from Windows and Linux CVM instance over the private and public networks.

### Accessing from Windows CVM

1. Log in to a Windows CVM instance. For more information, please see Configuring Windows CVM.
2. Download a standard SQL client.
MySQL Workbench is recommended. Visit https://dev.mysql.com/downloads/workbench/ and download an appropriate installer based on your system version.

### MySQL Workbench 8.0.18

**Select Operating System:**

- Microsoft Windows

**Looking for previous GA versions?**

#### Recommended Download:

**MySQL Installer for Windows**

- All MySQL Products. For All Windows Platforms. In One Package.

Starting with MySQL 5.6 the MySQL Installer package replaces the standalone MSI packages.

**Windows (x86, 32 & 64-bit), MySQL Installer MSI**

[Go to Download Page]

#### Other Downloads:

- **Windows (x86, 64-bit), MSI Installer**
  - 8.0.18
  - 37.2M
  - [Download]

3. **Login, Sign Up, and No, thanks, just start my download.** will appear on the page. Select **No, thanks, just start my download.** to download quickly.
4. Install MySQL Workbench on this CVM instance.

- If needed, you can click “Download Prerequisites” in the MySQL Workbench installation wizard to enter the corresponding page to download and install them. Then, install MySQL Workbench.
5. Open MySQL Workbench, select **Database > Connect to Database**, enter your TencentDB for MySQL instance's private (or public) network address, username, and password and click **OK** to log in.
   - **Hostname**: enter the private (or public) network address which can be viewed together with the ports on the instance details page in the TencentDB for MySQL Console. For the public network address, please check whether it has been enabled as instructed in Enabling Public Network Address.
   - **Port**: private (or public) network port.
   - **Username**: the username is "root" by default. For public network access, you are recommended to create a separate account for easier access control.
   - **Password**: the password corresponding to **Username**. If you forgot the password, please reset it as instructed in Resetting Password.

6. After successful login, the following page will appear, where you can view the modes and objects of the MySQL database, create tables, and perform operations such as data insertion and query.
Accessing from Linux CVM

1. Log in to a Linux CVM instance. For more information, please see [Configuring Linux CVM](#).
2. Taking a CVM instance on CentOS 7.2 64-bit as an example, install the MySQL client by running the following command:

   ```sh
yum install mysql
   ```
If Complete! is displayed, it means the MySQL client is installed successfully.

3. Perform the corresponding operation based on the access method:

- **Private network access:**
  a. Run the following command to log in to the TencentDB for MySQL instance.

    ```bash
    mysql -h hostname -u username -p
    ```

    - hostname: replace it with the private network address of the target TencentDB for MySQL instance, which can be viewed on the instance details page in the TencentDB for MySQL Console.
    - username: replace it with the default username root.

  b. Enter the password corresponding to the root account of the TencentDB for MySQL instance after the prompt Enter password: is displayed. If you forgot the password, please reset it as
instructed in **Resetting Password**.

If MySQL [(none)]> is displayed, it means that you have logged in to MySQL successfully.

```bash
mysql -h hostname -P port -u username -p
```

- hostname: replace it with the public network address of the target TencentDB for MySQL instance, which can be viewed together with the port on the instance details page in the TencentDB for MySQL Console. If the public network address has not been enabled, please enable it as instructed in **Enabling Public Network Address**.
- port: replace it with the public port number.
- username: replace it with the public network access username for public network access. You are recommended to create a separate account for easier access control.

b. Enter the password corresponding to the public network access username after the prompt Enter password: is displayed. If you forgot the password, please reset it as instructed in **Resetting Password**.

In this example, hostname is 59281c4exxx.myqcloud.com and public network port is 15311.

4. Under the prompt MySQL [(none)]>, you can send an SQL statement to the MySQL server for execution. For specific command lines, please see [mysql Client Commands](#).
Take `show databases;` for example as below:

```
MySQL [(none)]> show databases;
+--------------------------+
| Database                 |
+--------------------------+
| information_schema       |
| mysql                    |
| performance_schema       |
| test                     |
+--------------------------+
4 rows in set (0.00 sec)
```

Appendix 1. Enabling Public Network Access

1. Log in to the TencentDB for MySQL Console. In the instance list, click the instance name or Manage in the "Operation" column to enter the instance details page.
2. Find Public Network Address in the "Basic Info" section on the instance details page and click Enable.
3. Click **OK** and the enabling process starts.

4. After the public network address is enabled successfully, it can be found in the basic information.

The public network access can be disabled using the switch. When it is enabled again, the public network address corresponding to the domain name remains the same.

**Appendix 2. Troubleshooting**
If you cannot connect to TencentDB for MySQL, please troubleshoot the problem as instructed in Instance Disconnection.
Managing Database

Last updated : 2020-05-15 16:37:17

Instance List Page

You can log in to the TencentDB for MySQL Console and enter the instance list page to view instance information and manage your instances.

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Configuration adjustment</td>
<td>In the instance list, you can adjust the configuration of your database instance (i.e., scale-up or scale-down). For more information, please see Adjusting Database Instance Specification.</td>
</tr>
<tr>
<td>Rollback</td>
<td>In the instance list, select the instance to be rolled back and select More &gt; Rollback to roll it back to a specified time point based on cold backup and binlog. For more information, please see Data Rollback.</td>
</tr>
</tbody>
</table>
| Restart                  | In the instance list, select an instance and click Restart to restart it. You can also select multiple instances for batch restart.  
- During the restart, the instance will be inaccessible, and existing connections to it will be closed. Please be prepared for the restart to avoid business interruption.  
- During the restart, if the number of business writes is high and there are too many dirty pages, the restart will fail. In this case, the instance will go back to the state before the restart and become accessible.  
- Please restart instances during off-peak hours to ensure the restart success rate and reduce the impact on your business. |

Instance Management Page

Log in to the TencentDB for MySQL Console. After an instance is initialized, click its name in the instance list or click Manage in the “Operation” column to enter the instance management page,
where you can view its details, monitor it, and manage databases.

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Instance details</td>
<td>On the Instance Details tab, you can view and manipulate various information of the database. Click to modify the basic information of the instance, where the public network address is disabled by default. If needed, click Enable after &quot;Public Network Address&quot; to enable it.</td>
</tr>
<tr>
<td>Instance monitoring</td>
<td>On the &quot;Instance Monitoring&quot; tab, you can view the monitoring data of various core metrics of the current database in various dimensions such as access, load, query cache, table, InnoDB, and MyISAM. For more information, please see Monitoring Feature and Alarming Feature.</td>
</tr>
</tbody>
</table>
| Database management | - Database List  
  On the "Database List" tab, you can import SQL files into a specified database. For more information, please see Importing SQL File.  
  - Parameter Settings  
  On the "Parameter Settings" tab, you can set and view the history of various customizable database parameters. Click next to Current Value to modify the parameter value.  
  - Manage Account  
  On the "Manage Account" tab, you can manage the system's default root account, such as modifying permissions and resetting password. You can also create and delete creates. For more information, please see Account Management. |
<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Security group</td>
<td>On the &quot;Security Group&quot; tab, you can configure security groups for your databases. For more information, please see Security Group.</td>
</tr>
<tr>
<td>Backup and restoration</td>
<td>On the &quot;Backup and Restore&quot; tab, you can download binlogs and perform cold backup. For more information, please see Backup Mode.</td>
</tr>
<tr>
<td>Operation log</td>
<td>On the &quot;Operation Log&quot; tab, you can view and download slow query logs, error log, and rollback logs. For more information, please see Operation Log.</td>
</tr>
<tr>
<td>Read-only instance</td>
<td>On the &quot;Read-only Instance&quot; tab, you can create one or more read-only (RO) instances, which can be applied to read/write separation and one-master-multiple-slave application scenarios to boost the read load capacity of your databases. For more information, please see Read-only Instance.</td>
</tr>
<tr>
<td>Connection check</td>
<td>On the &quot;Connection Check&quot; tab, you can check for potential connectivity and access problems and address them using the solutions provided so as to ensure that your databases can be accessed normally. For more information, please see One-Click Connectivity Checker.</td>
</tr>
</tbody>
</table>